

In the Specification

Page 24, line 15, correct "routes" to --Routes--.

Page 25, in the third row of Table 5, correct "in" to --iv--.

Page 57, line 5, correct the spelling of "gen" to --gene--.

In the Claims

Please cancel Claim 4. Please amend Claims 1, 16, 17, 32, 44, 52 and 53 as follows:

C1 Sub 1
1. (Amended) A method of immunizing a vertebrate against an infectious agent, said method comprising administering to a vertebrate a DNA transcription unit comprising DNA encoding [a desired] an antigen of the infectious agent operatively linked to DNA which is a promoter region, wherein the DNA transcription unit is expressed in cells of the vertebrate, [whereby] thereby eliciting a humoral immune response, a cell-mediated immune response or both, [is elicited] against the [desired] antigen, whereby the vertebrate is protected from disease caused by the infectious agent.

C2 Sub 2
16. (Amended) A method of immunizing a vertebrate against an infectious agent, said method comprising administering to a vertebrate one or more DNA transcription units, each comprising DNA encoding [a desired] an antigen or antigens of the infectious agent operatively linked to DNA which is a promoter region, wherein the DNA transcription unit or units are expressed in cells of the vertebrate, [whereby] thereby eliciting a humoral immune response, a cell-mediated immune response or both, [is elicited] against the [desired] antigen or antigens, whereby the

vertebrate is protected from disease caused by the infectious agent.

- C2
cont
17. (Amended) A method of immunizing a vertebrate against an infectious agent, said method comprising administering to a mucosal surface of the vertebrate a DNA transcription unit comprising DNA encoding [a desired] an antigen of the infectious agent operatively linked to DNA which is a promoter region, in a physiologically acceptable carrier, wherein the DNA transcription unit is expressed in cells of the vertebrate, thereby eliciting a humoral immune response, a [or] cell-mediated immune response, or both, against the [desired] antigen, whereby the vertebrate is protected from disease caused by [an] the infectious agent.
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- C3
Sub D3
32. (Amended) A method of immunizing a vertebrate against an infectious agent, said method comprising administering parenterally to the vertebrate a DNA transcription unit comprising DNA encoding [a desired] an antigen of [an] the infectious agent operatively linked to DNA which is a promoter region, in a physiologically acceptable carrier, wherein the DNA transcription unit is expressed in cells of the vertebrate, thereby eliciting a humoral immune response, a [or] cell-mediated immune response, or both, against [a desired] the antigen, whereby the vertebrate is protected from disease caused by the infectious agent.
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- C4
Sub D4
44. (Amended) A method of immunizing a mammal against an immunodeficiency virus, said method comprising administering to the mammal a DNA transcription unit comprising DNA encoding an antigen of the